

08830_0286US1_SEQ_LISTING_ST25.txt
SEQUENCE LISTING

<110> McKeown, Brendan
Scott, Christopher
McBride, Alan
Buick, Richard
Johnston, Jim

<120> Soluble Recombinant Protein Production

<130> 08830-0286US1

<140> PCT/GB02/05941

<141> 2002-12-30

<140> US 10/501,357

<141> 2006-06-09

<150> GB 0131026.7

<151> 2001-12-28

<150> GB 0230247.9

<151> 2002-12-28

<160> 7

<170> PatentIn version 3.1

<210> 1

<211> 1256

<212> DNA

<213> Staphylococcus aureus

<400> 1

tagcaataacc ttttcctcta gctgaagcat cgacataaat agaatgttcg attgtatata	60
ggtagtgctgg ccaaggtcta aatgaaccga acgtcgcaaa ccctaagaca cttccatttt	120
cctcaaatac aaagataggc tcatgcttac gttgtttcgt ttcaaaccat gcgacacggt	180
cgtctatggg ttgtggttca taagtataaa cagctgtagt attgataatg gcatcattgt	240
atatcgctaa tatagcgttt aaatcctctt ttttagcgta tctaatacata tcaattcccc	300
cttagtaatt attaaaagcg tttcgttatt tgaatgcaaa tatgtgtaat gaaatctaac	360
gtaaaagtat acatgtaaat tttatagtat aaaatgaatt gctatgagtc attttgaaat	420
taatgggata ctatatgaaa tgttaacagg cattgtgaaa tgtataaaag gagccttaac	480
gtatgaaaaa atggacaaat cgattaatga caatcgctgg tgtggtagctt atcctagtgg	540
cagcatatgt gtttgctaaa ccacatatcg ataattatct tcacgataaa gataaagatg	600
aaaagattga acaatatgat aaaaatgtaa aagaacaggc gagtaaagat aaaaagcagc	660
aagctaaacc tcaaatccg aaagataaat cgaaagtggc aggctatatt gaaattccag	720
atgctgatat taaagaacca gtatatccag gaccagcaac acctgaacaa ttaaataagag	780

08830_0286US1_SEQ_LISTING_ST25.txt

```

gtgtaagctt tgcagaagaa aatgaatcac tagatgatca aaatatttca attgcaggac      840
acactttcat tgaccgtccg aactatcaat ttacaaatct taaagcagcc aaaaaaggta      900
gtatggtgta ctttaaagtt ggtaatgaaa cacgtaagta taaaatgaca agtataagag      960
atgttaagcc tacagatgta ggagttctag atgaacaaaa aggtaaagat aaacaattaa    1020
cattaattac ttgtgatgat tacaatgaaa agacaggcgt ttgggaaaaa cgtaaaatct    1080
ttgtagctac agaagtcaaa taatctatta cgctaatgga tgaatatatt gagtggaaaa    1140
cagtcttgat tgcgagactg ttttttgttt ggtatgaggt agcaatgacg acgtgtcatt    1200
ggtggagatt gtaaaaatac ataataaaaa gaagcggcaa tgtataccgc tccttt      1256

```

```

<210> 2
<211> 206
<212> PRT
<213> Staphylococcus aureus

```

```

<400> 2
Met Lys Lys Trp Thr Asn Arg Leu Met Thr Ile Ala Gly Val Val Leu
1      5      10
Ile Leu Val Ala Ala Tyr Leu Phe Ala Lys Pro His Ile Asp Asn Tyr
20     25     30
Leu His Asp Lys Asp Lys Asp Glu Lys Ile Glu Gln Tyr Asp Lys Asn
35     40     45
Val Lys Glu Gln Ala Ser Lys Asp Lys Lys Gln Gln Ala Lys Pro Gln
50     55     60
Ile Pro Lys Asp Lys Ser Lys Val Ala Gly Tyr Ile Glu Ile Pro Asp
65     70     75     80
Ala Asp Ile Lys Glu Pro Val Tyr Pro Gly Pro Ala Thr Pro Glu Gln
85     90     95
Leu Asn Arg Gly Val Ser Phe Ala Glu Glu Asn Glu Ser Leu Asp Asp
100    105    110
Gln Asn Ile Ser Ile Ala Gly His Thr Phe Ile Asp Arg Pro Asn Tyr
115    120    125
Gln Phe Thr Asn Leu Lys Ala Ala Lys Lys Gly Ser Met Val Tyr Phe
130    135    140
Lys Val Gly Asn Glu Thr Arg Lys Tyr Lys Met Thr Ser Ile Arg Asp
145    150    155    160
Val Lys Pro Thr Asp Val Gly Val Leu Asp Glu Gln Lys Gly Lys Asp
165    170    175
Lys Gln Leu Thr Leu Ile Thr Cys Asp Asp Tyr Asn Glu Lys Thr Gly
180    185    190
Val Trp Glu Lys Arg Lys Ile Phe Val Ala Thr Glu Val Lys
195    200    205

```

08830_0286US1_SEQ_LISTING_ST25.txt

<210> 3
 <211> 525
 <212> DNA
 <213> Staphylococcus aureus

<400> 3
 atgagaggat cgcatcacca tcaccatcac ggatctaaac cacatatcga taattatctt 60
 cacgataaag ataaagatga aaggattgaa caatatgata aaaatgtaaa agaacaggcg 120
 agtaaggata aaaagcagca agctaaacct caaattccga aagataaatc gaaagtggca 180
 ggctatatattg aaattccaga tgctgatatt aaagaaccag tatatccagg accagcaaca 240
 cctgaacaat taaatagagg tgtaagcttt gcagaagaaa atgaatcact agatgatcaa 300
 aatattttcaa ttgcaggaca cacttttcatt gaccgtccga actatcaatt taaaaatctt 360
 aaagcagcca aaaaaggtag tatgggtgtac tttaaagttg gtaatgaaac acgtaagtat 420
 aaaatgacaa gtataagaga tgtaagcct acagatgtag aagttctaga tggatccgca 480
 tgcgagctcg gtaccccggg tcgacctgca gccaaactta attag 525

<210> 4
 <211> 525
 <212> DNA
 <213> Staphylococcus aureus

<400> 4
 tactctccta gcgtagtggt agtggttagtg cctagatttg gtgtatagct attaatagaa 60
 gtgctatttc tatttctact ttcctaactt gttatactat ttttacattt tcttgtccgc 120
 tcattcctat ttttcgtcgt tcgatttggg gtttaaggct ttctatttag ctttcaccgt 180
 ccgatataac ttttaaggctt acgactataa tttcttggtc atatagggtcc tggtcgttgt 240
 ggacttggtta atttatctcc acattcgaaa cgtcttcttt tacttagtga tctactagtt 300
 ttataaagtt aacgtcctgt gtgaaagtaa ctggcaggct tgatagttaa atgtttagaa 360
 tttcgtcggg tttttccatc ataccacatg aaatttcaac cattactttg tgcattcata 420
 ttttactgtt catattctct acaattcgga tgtctacatc ttcaagatct acctaggcgt 480
 acgctcgagc catggggccc agctggacgt cggttcgaat taatc 525

<210> 5
 <211> 174
 <212> PRT
 <213> Staphylococcus aureus

<400> 5
 Met Arg Gly Ser His His His His His Gly Ser Lys Pro His Ile
 1 5 10 15
 Asp Asn Tyr Leu His Asp Lys Asp Lys Asp Glu Arg Ile Glu Gln Tyr
 20 25 30

08830_0286US1_SEQ_LISTING_ST25.txt

Asp Lys Asn Val Lys Glu Gln Ala Ser Lys Asp Lys Lys Gln Gln Ala
35 40 45

Lys Pro Gln Ile Pro Lys Asp Lys Ser Lys Val Ala Gly Tyr Ile Glu
50 55 60

Ile Pro Asp Ala Asp Ile Lys Glu Pro Val Tyr Pro Gly Pro Ala Thr
65 70 75 80

Pro Glu Gln Leu Asn Arg Gly Val Ser Phe Ala Glu Glu Asn Glu Ser
85 90 95

Leu Asp Asp Gln Asn Ile Ser Ile Ala Gly His Thr Phe Ile Asp Arg
100 105 110

Pro Asn Tyr Gln Phe Thr Asn Leu Lys Ala Ala Lys Lys Gly Ser Met
115 120 125

Val Tyr Phe Lys Val Gly Asn Glu Thr Arg Lys Tyr Lys Met Thr Ser
130 135 140

Ile Arg Asp Val Lys Pro Thr Asp Val Glu Val Leu Asp Gly Ser Ala
145 150 155 160

Cys Glu Leu Gly Thr Pro Gly Arg Pro Ala Ala Lys Leu Asn
165 170

<210> 6
<211> 27
<212> DNA
<213> Artificial

<220>
<223> chemical synthesis

<400> 6
tttttagat ctaaaccaca tatcgat

27

<210> 7
<211> 27
<212> DNA
<213> Artificial

<220>
<223> chemical synthesis

<400> 7
tttttggat ccattctagaa cttctac

27